



TDOT

Department of
Transportation

**Welcome to the webinar!
We'll begin shortly.**

I-40/81 Multimodal Corridor Study

Round 2 Virtual Public Meetings

December 7, 2020



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I-40/81 Multimodal Corridor Study

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TODAY'S AGENDA



CORRIDOR STUDY

- Study Purpose
- Types of Needs Identified on I-40 and I-81
- Recommended Solutions
- Discussion / Questions

STUDY PURPOSE



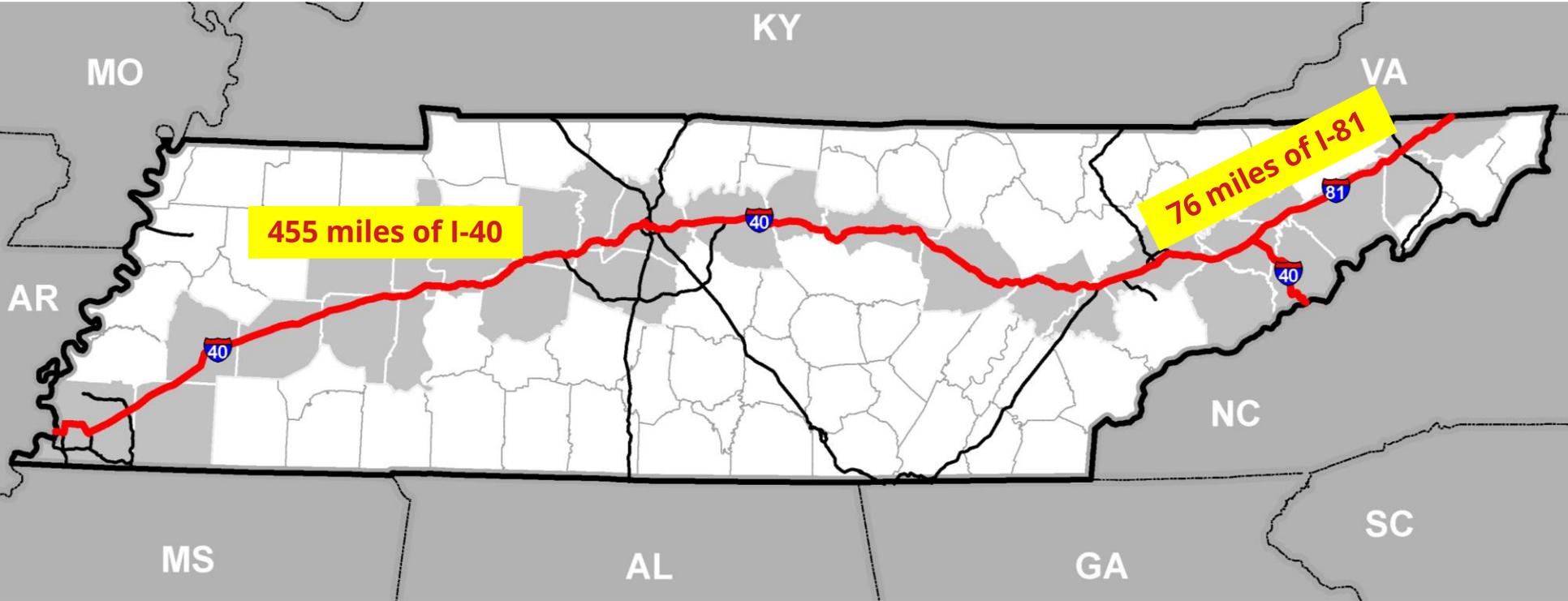
WHAT THIS STUDY IS:

- ✓ A 20-year, phased set of recommended transportation improvements for the I-40 and I-81 corridors

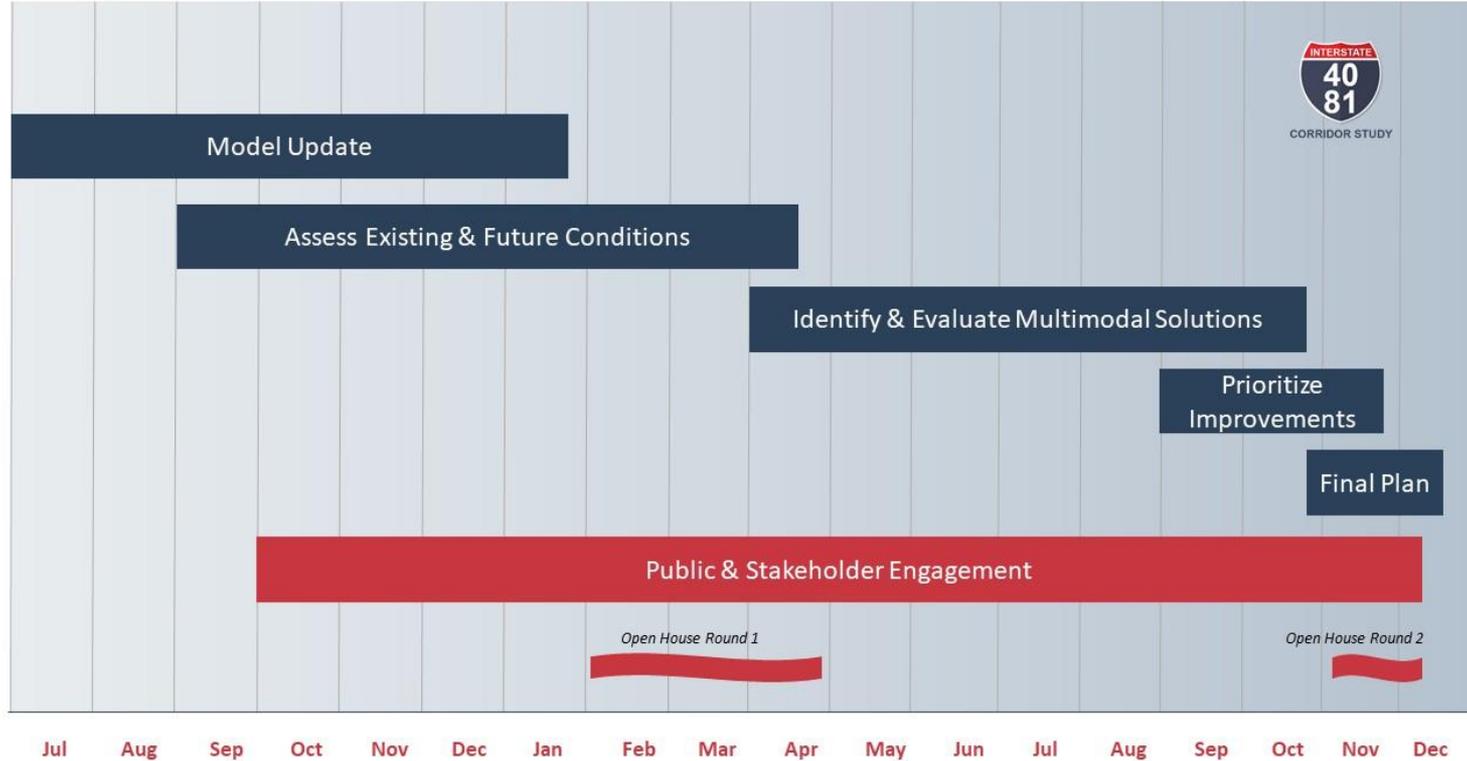
PURPOSE:

- ✓ Guidance for decision-makers regarding future projects
- ✓ Promote coordination with stakeholders on the future of this corridor

CORRIDOR STUDY AREA



STUDY TIMELINE



RECOMMENDED SOLUTION TYPES



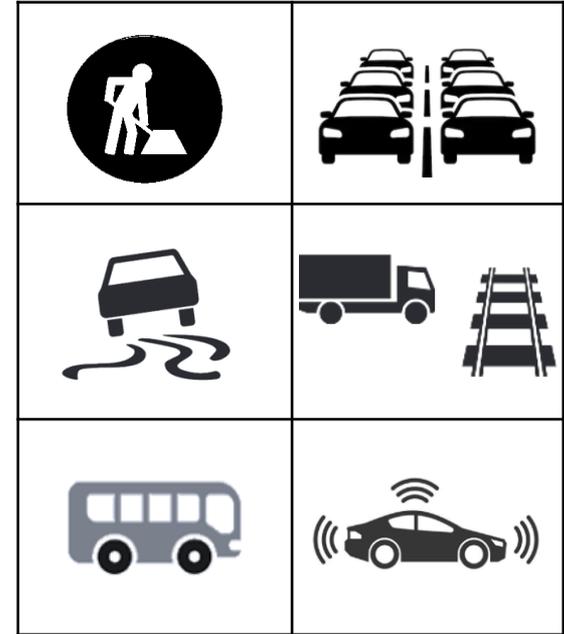
Highway Expansion

Safety

Transportation Systems Management & Operations

Freight

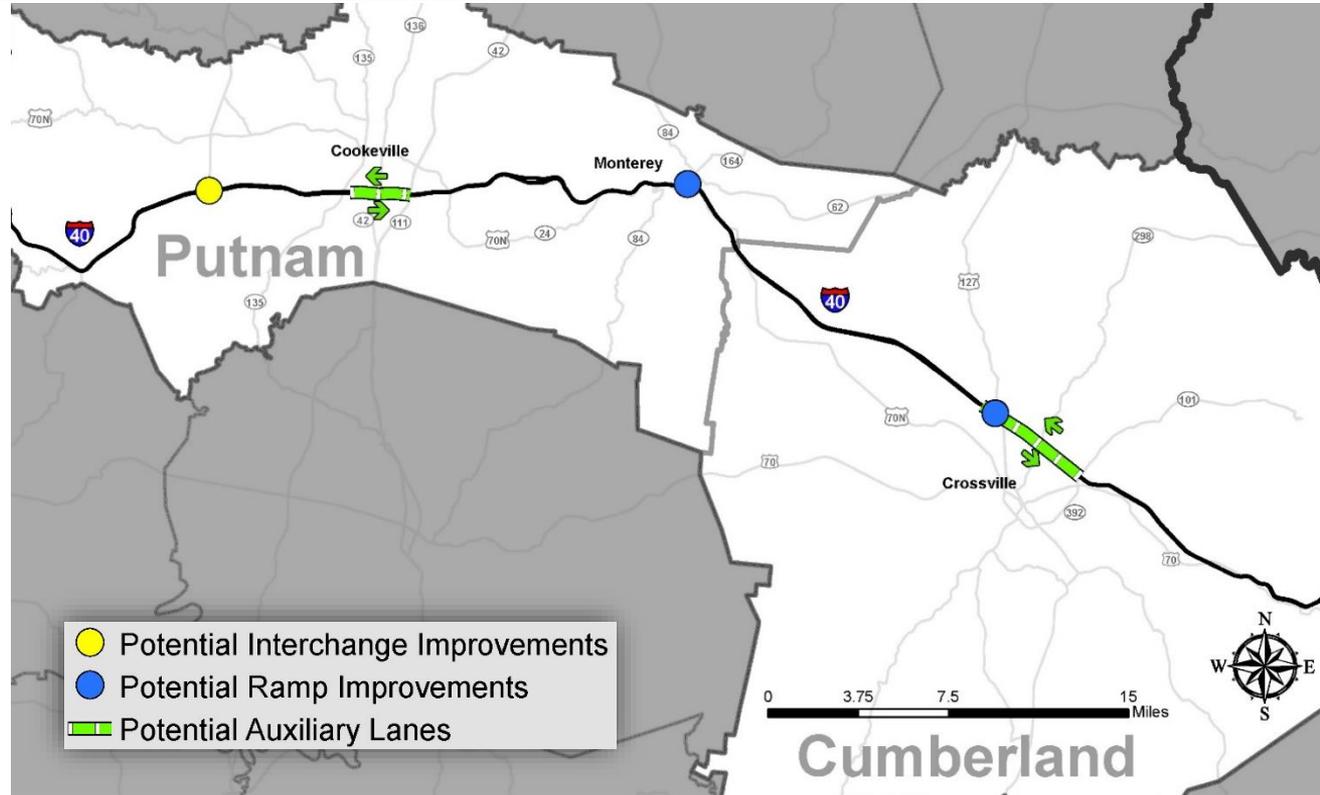
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RECOMMENDED HIGHWAY IMPROVEMENTS



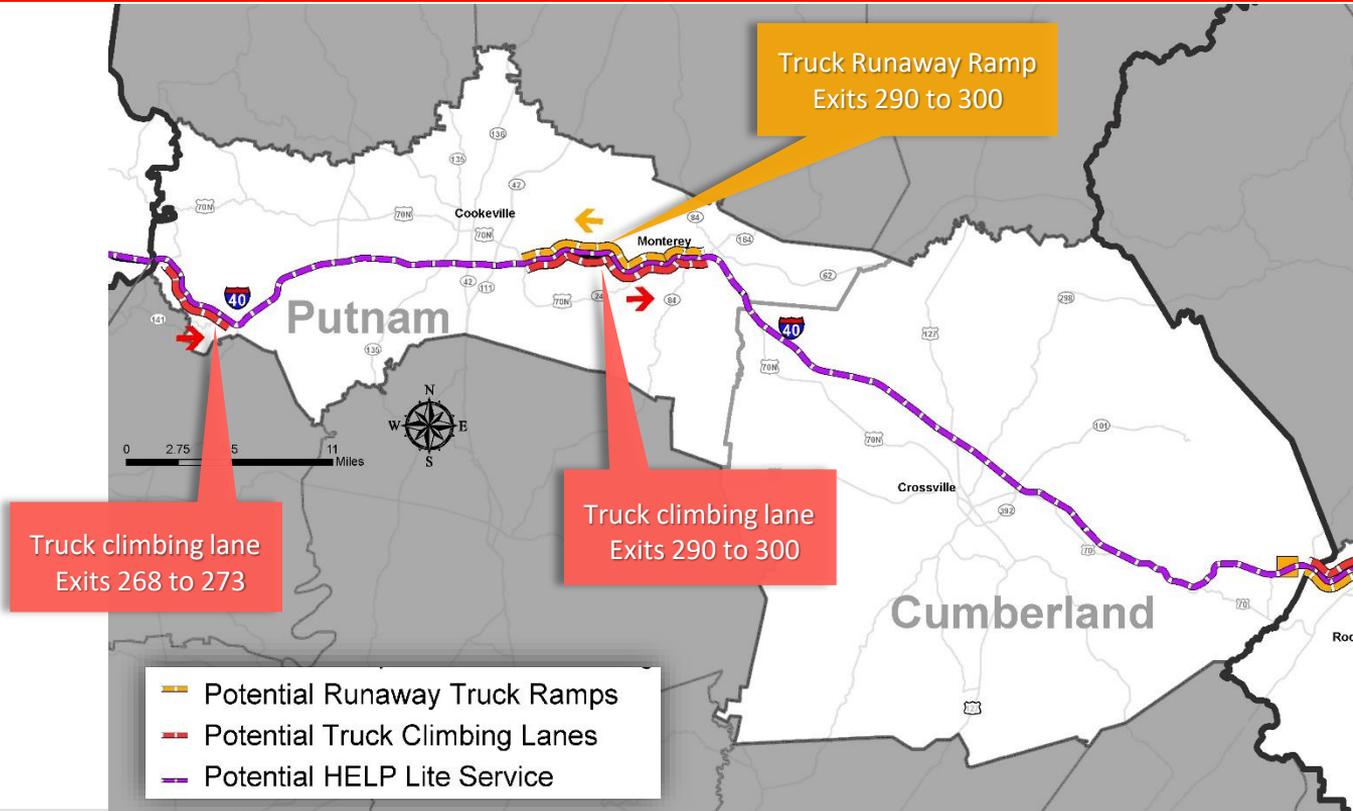
- Interchange upgrade at Exit 280
 - Also widen SR 56 (Baxter Rd) through interchange
- Add auxiliary lanes:
 - *Cookeville: between Exits 286 and 288*
 - *Crossville: between Exits 317 and 322*
- Exit 301 - Add deceleration lane at westbound off-ramp from US 70N/SR 24
- Exit 317 – reconfigure intersection to remove islands at ramps



RECOMMENDED SAFETY IMPROVEMENTS



- Truck climbing lanes
 - Buffalo Valley area
 - Monterey Mountain
- Truck runaway ramp at Monterey Mountain
- Limits are approximate – further preliminary engineering to determine appropriate placement



RECOMMENDED SAFETY IMPROVEMENTS



- Improvements to I-40 itself
- Improvements to routes designated for use as I-40 detours

Old Baxter Rd/Main St/Ward Mill Rd
From I-40 Exit 276 to SR 56

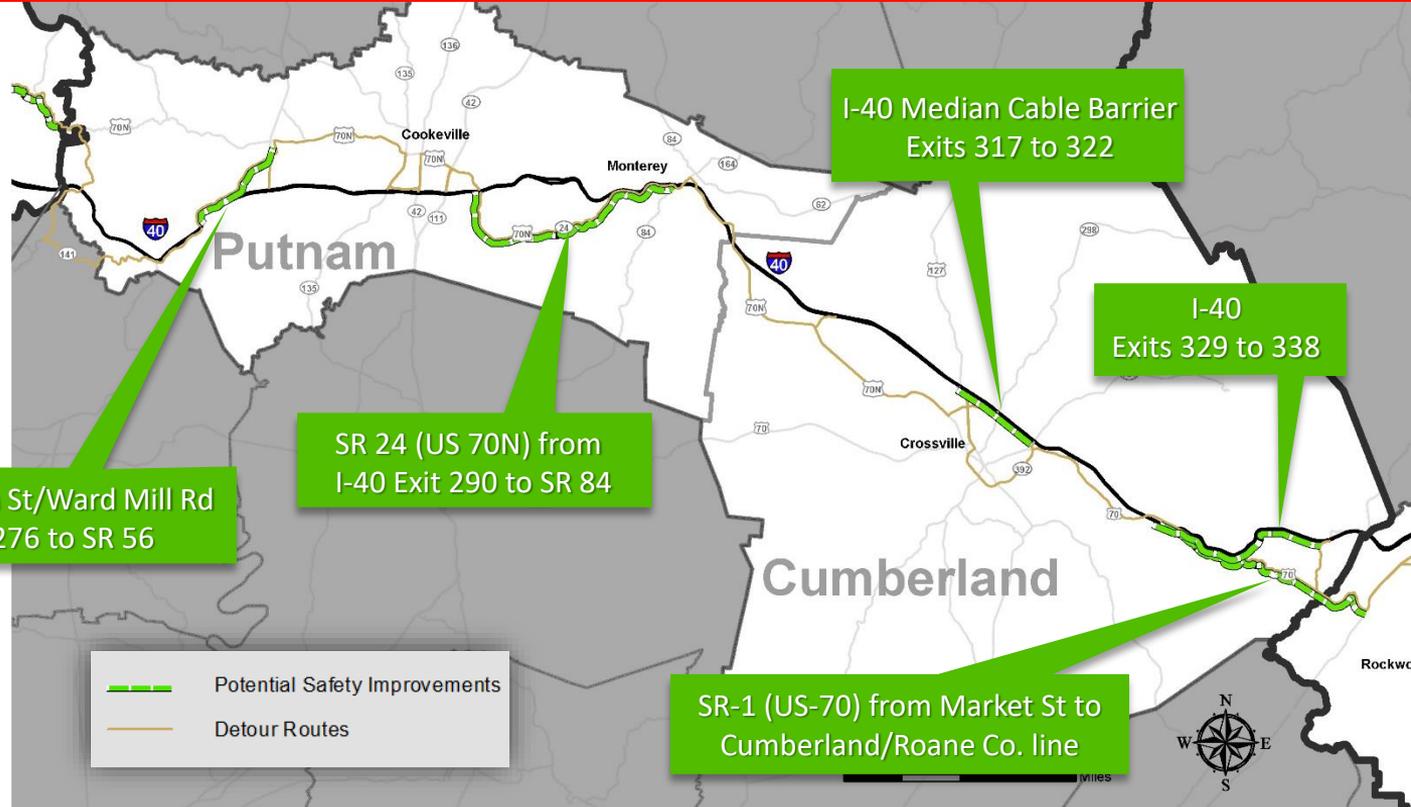
SR 24 (US 70N) from
I-40 Exit 290 to SR 84

I-40 Median Cable Barrier
Exits 317 to 322

I-40
Exits 329 to 338

SR-1 (US-70) from Market St to
Cumberland/Roane Co. line

 Potential Safety Improvements
 Detour Routes



TSMO

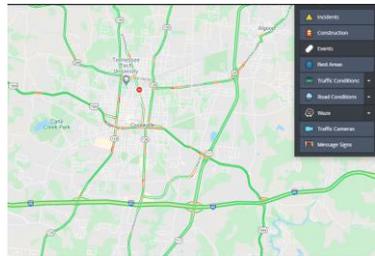
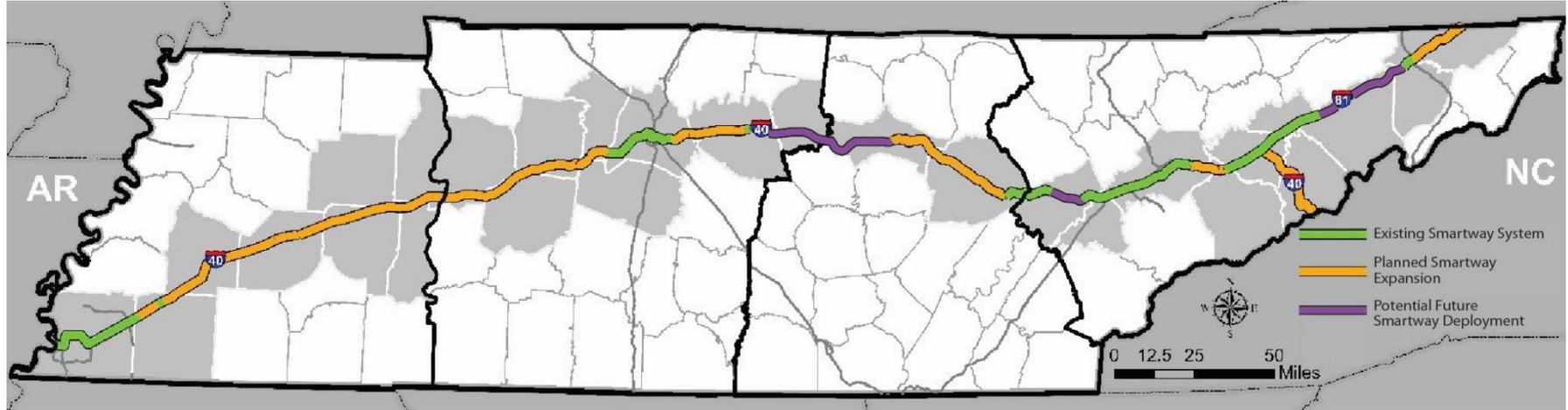
- Management of transportation facilities with strategies to maximize their existing efficiency
- Often involves technology – but not always
- Can delay the need to physically expand the facility

Examples of TSMO strategies:

- ✓ Real-time traveler information
- ✓ Integrated corridor management (ICM)
- ✓ Managed lanes
- ✓ Ramp metering



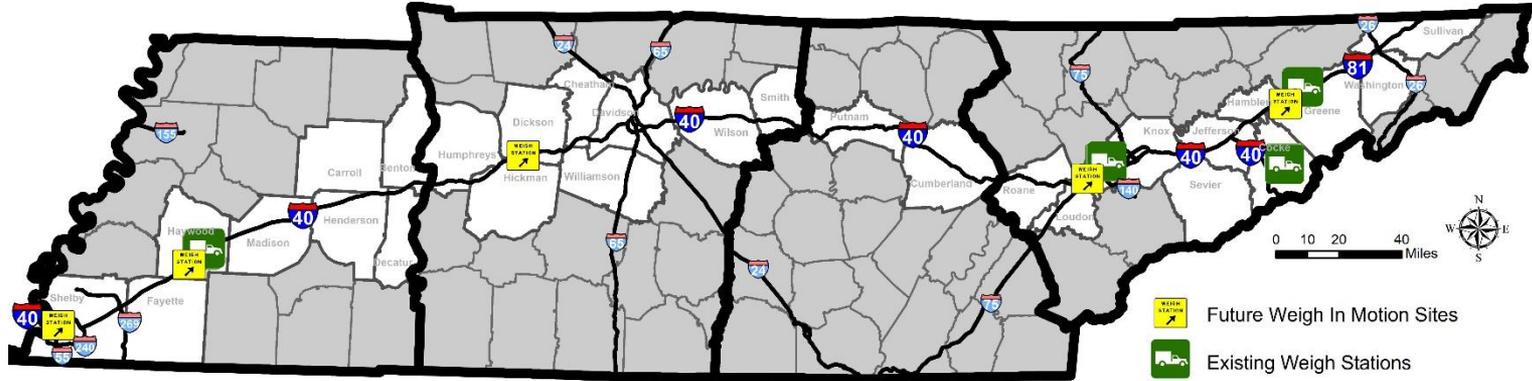
RECOMMENDED SMARTWAY EXPANSION



Smartway Expansion includes:

- Radar speed detection
- Roadway weather sensors
- CCTV cameras
- Dynamic message signs

WEIGH IN MOTION TECHNOLOGY



Future Weigh in Motion sites on I-40 and I-81:

- Shelby County
- Haywood County
- Dickson County
- Knox County
- Greene County

ELECTRIC VEHICLES / ALTERNATIVE FUELS



Legend

Alternative Fuel Corridors

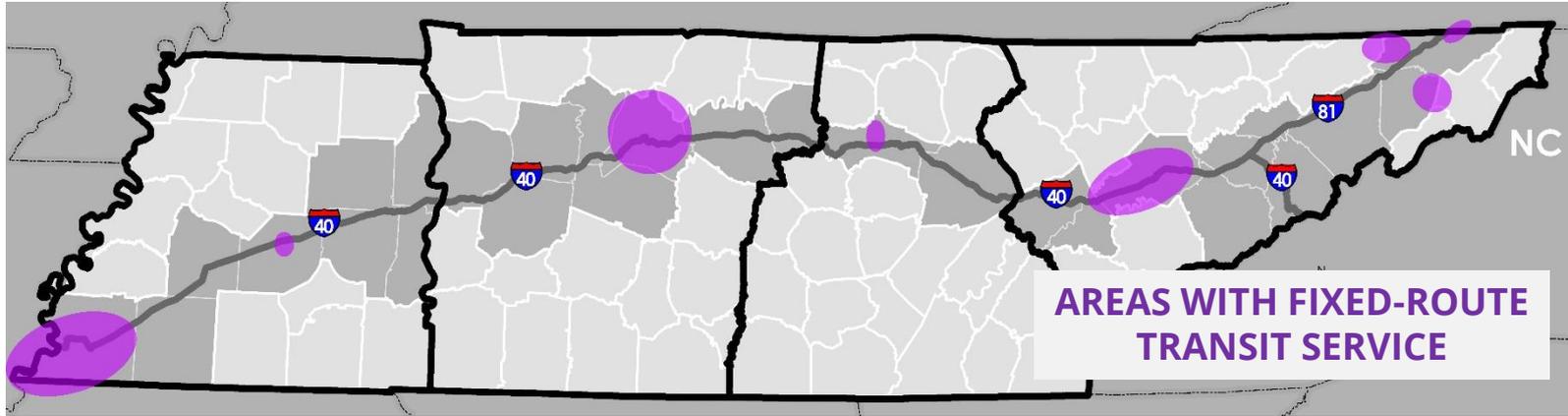
— EV Corridor Ready

— EV Corridor Pending

National EV “Corridor Ready” guidelines:

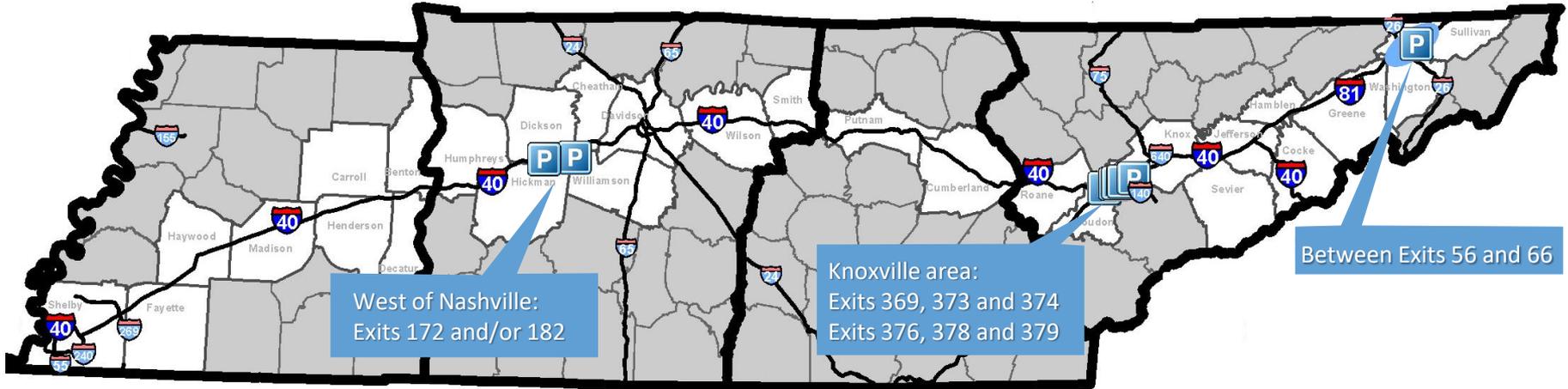
- Public DC fast charging stations at least every 50 miles
- Stations no farther than 5 miles off the corridor
- Equipped with multiple connector types

TRANSIT SERVICE



- Intercity services
- Regional services
- Carpool, vanpool programs

FUTURE PARK AND RIDE FACILITIES



HOW TO SHARE YOUR INPUT



Q&A session at today's virtual meeting

Visit the project website:

www.tn.gov/tdot/i-40-81-study.html

Take our survey:

<https://www.surveymonkey.com/r/I4081Study>

Call or e-mail:

Andrea Noel, TDOT Reg. 2 Planning Supv.
(423) 510-1213 or Andrea.Noel@tn.gov

Joan Barnfield, TDOT Project Manager
(615) 253-2418 or Joan.Barnfield@tn.gov

Mail a letter:

Attention: Joan Barnfield
TDOT Long Range Planning Division
505 Deaderick Street, Suite 900
Nashville, TN 37243-0349

DISCUSSION, QUESTIONS, COMMENTS

